

10/523020

Rec'd PCT 02 FEB 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 September 2004 (02.09.2004)

PCT

(10) International Publication Number  
WO 2004/073716 A1

(51) International Patent Classification<sup>7</sup>: A61K 31/55,  
A61P 9/00, C07D 223/16

(74) Agents: KAWAMIYA, Osamu et al.; Aoyama & Partners  
Imp Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi,  
Osaka 540-0001 (JP).

(21) International Application Number:  
PCT/JP2004/002085

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(22) International Filing Date: 23 February 2004 (23.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/448,878 24 February 2003 (24.02.2003) US

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): OT-  
SUKA PHARMACEUTICAL CO., LTD. [JP/JP]; 9,  
Kandatsukasa-cho 2-chome, Chiyoda-ku, Tokyo 101-8535  
(JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): OZAKI, Atsushi  
[JP/JP]; 51-48, Tainohama-aza-nishinosu, Kitajima-cho,  
Itano-gun, Tokushima 771-0204 (JP). MAKI, Yosuke  
[JP/JP]; 5-18-10-103, Onoharahigashi, Mino-shi, Osaka  
562-0031 (JP). SATO, Osamu [JP/JP]; 3-5-11-201,  
Chokojikita, Toyonaka-shi, Osaka 561-0875 (JP). YAMA-  
MURA, Yoshitaka [JP/JP]; 45-16, Nakamura-Aza-My-  
ojinshita, Kitajima-cho, Itano-gun, Tokushima 771-0203  
(JP).

#### Declaration under Rule 4.17:

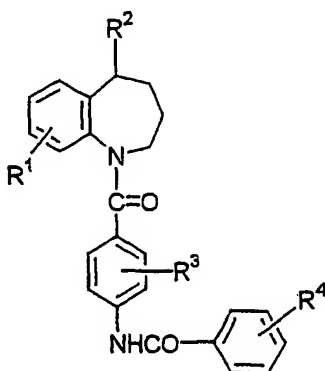
— as to the applicant's entitlement to claim the priority of the  
earlier application (Rule 4.17(iii)) for all designations

#### Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR TREATING SEVERE HEART FAILURE AND MEDICAMENT THEREFOR



(1)

(57) Abstract: A method for treating severe heart failure, comprising administering to a patient an effective amount of a benzazepine compound (1): wherein R<sub>1</sub> is H or halogen, R<sub>2</sub> is OH, or -NR<sub>5</sub>R<sub>6</sub> (R<sub>5</sub> and R<sub>6</sub> are H or lower alkyl, R<sub>3</sub> is H, halogen, lower alkyl, or lower alkoxy, R<sub>4</sub> is halogen, lower alkyl or lower alkoxy, or a salt thereof, and a pharmaceutical composition containing the benzazepine compound (1) or a salt thereof and use of the compound (1) or a salt thereof for preparing a medicament for treatment of severe heart failure.

WO 2004/073716 A1